

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
AMENDED
PERMIT

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

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Surface Water

(Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)

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Ground Water

(Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE August 13, 1986	APPLICATION NUMBER G2-27372	PERMIT NUMBER G2-27372	CERTIFICATE NUMBER
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NAME City of Lacey			
ADDRESS (STREET) PO Box 3400	(CITY) Lacey	(STATE) Washington	(ZIP CODE) 98509-3400

The applicant is pursuant to the Report of Examination which has been accepted by the applicant, hereby granted a permit to appropriate the following public waters of the State of Washington, subject to existing rights and to the limitations and provisions set herein.

PUBLIC WATERS TO BE APPROPRIATED

SOURCE A well (Pleasant Glade School)
TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 800	MAXIMUM ACRE FEET PER YEAR 1290 (Supplemental)
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QUANTITY, TYPE OF USE, PERIOD OF USE 1290 Acre-feet per year	Municipal Supply	Year-round, as needed
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LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION--WITHDRAWAL 450 feet North and 215 feet West of the East quarter corner of Section 8.
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LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE¼ NE¼	SECTION 8	TOWNSHIP N. 18	RANGE, (E. OR W.) W.M. 1W	W.R.I.A. 13'	COUNTY Thurston
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Area served by the City of Lacey as described in 1997 Water System Comprehensive Plan.



DESCRIPTION OF PROPOSED WORKS

Proposed 20 inch diameter drilled well.

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE: Started	COMPLETE PROJECT BY THIS DATE: March 1, 2010	WATER PUT TO FULL USE BY THIS DATE: March 1, 2013
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PROVISIONS

The instantaneous quantity authorized for appropriation by this document is considered to be a portion of the amount reserved by the adoption of Chapter 173-591, the Reservation of Future Public Water Supply For Thurston County. The priority date of this permit is August 13, 1986.

All wells constructed in the State shall meet the construction requirements of Chapter 173-160 WAC entitled "Minimum Standards for the Construction and Maintenance of Wells" and Chapter 18-104 RCW entitled "Water Well Construction".

"The permittee shall secure the services of a reputable hydrogeologist to oversee testing of the production well. The test(s) shall be conducted for a minimum of 24 hours (for confined aquifer conditions) or 72 hours (for unconfined aquifer conditions), or until drawdown stabilizes, whichever is longer. Stabilization is defined as less than 0.05 feet of drawdown per hour of pumping. At the completion of pumping, the production and observation wells shall be monitored until total recovery has occurred. The test(s) must be designed and conducted using standard aquifer test procedures as outline in WRIS Information Bulletin 30, Aquifer Testing Procedures, to determine the following:

- Aquifer transmissivity.
- Aquifer storage coefficient or specific yield.
- The hydraulic response of the aquifer to the proposed ground water withdrawal, with regard to distance and time.
- The effect of the proposed ground water withdrawal on existing ground water users. If senior water right holders are adversely affected while the aquifer test is being conducted, the test shall be terminated.

When aquifer testing is complete, the data shall be analyzed and all pertinent information, including copies of the field data sheets, shall be submitted to Ecology in a completion report. The report shall contain a discussion of the methods of analysis used to determine aquifer characteristics, along with the calculations employed. The completion report shall also contain the following information:

- Antecedent water-level and barometric trends for the 48-hour period prior to pumping.
- Distance, to the nearest foot, from the pumping well to each observation well.
- A description of all measuring points, including elevations to the nearest foot above mean sea level.
- Total depths of all wells including depth and length of screened intervals.
- A locational map of all monitoring wells.
- A geologic log describing the lithology and thickness of units encountered while constructing the subject well.
- An as-built drawing showing the construction details of the subject well (casing diameter and type, seal type and location, etc.)."

"Prior to issuance of a final water right certificate, data shall be submitted covering three years production from the subject well, including pumpage and water levels as described below:

(continued on page 3)

This permit shall be subject to cancellation should the permittee fail to comply with the above development schedule and/or to give notice to the Department of Ecology on forms provided by that Department documenting such compliance.

Given under my hand and the seal of this office at Olympia, Washington,

this 6th day of May, 2002.

Department of Ecology

ENGINEERING DATA
OK

by

J. Mike Harris
J. Mike Harris, Section Supervisor

LEGAL DESCRIPTION AND/OR PROVISIONS CONTINUED

Provisions Continued

- An approved measuring device shall be installed and maintained for each of the sources identified by this water right in accordance with the rule "Requirements for Measuring and Reporting Water Use", Chapter 173-173 WAC. Water use data shall be recorded *monthly* and shall be submitted *annually* to Ecology by *January 31st of each calendar year, (or more frequently if necessary)*.
- Installation and maintenance of an access port as described in WAC 173-160-355 is required. An air line and gauge may be installed in addition to the access port. Water levels shall be measured in Wells 6A and 6C and recorded using a consistent methodology, in accordance with accepted industry standards. Such measurements shall be made at least monthly. The length of the pumping period or recovery period prior to each measurement shall be constant, and shall be included in the record."
- A summary of the production and water level data for this well shall be submitted quarterly to the Department of Ecology, Water Resources Program, Southwest Regional Office, during the months of January, April, July and October. The frequency of data reporting shall be modified upon request from the Department."

"This permit shall not progress to the certificate phase until the Department of Ecology has received and reviewed the first three years of water level and water use data for the subject well. The permitted annual and instantaneous withdrawal quantities shall be reevaluated at that time assure that continued use of the well will not impair senior rights or exceed the safe sustaining yield of the aquifer tapped by the well. Quantities authorized under this permit may be reduced on the final water right certificate."

"Pursuant to RCW 90.03.330 and 90.44.080, a final certificate will be issued upon a showing satisfactory to the Department that the appropriation has been perfected in compliance with the terms of the subject permit. The certificated withdrawal rate and annual quantity will reflect a sustainable yield and protection of senior rights, within the amounts specified on the permit. Monitoring and data submittal will be required under the certificate as well as the permit."

The permittee is advised that notice of Proof of Appropriation of water (under which the final certificate of water right is issued) should not be filed until the permanent distribution system has been constructed and that quantity of water allocated by the permit to the extent water is required, has been put to full beneficial use.

The Water Resources Act of 1971 specifies certain criteria regarding utilization and management of the waters of the state in the best public interest. Use of water may be subject to regulation at certain times, based on the necessity to maintain water quantities sufficient for preservation of the natural environment.

Issuance of this water right may be subject to implementation of the minimum requirements established in the Conservation Planning Requirements, Guidelines and Requirements for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology, and Conservation Programs, July 1994, and as revised.

Under RCW 90.03.005 and 90.54.020(6), conservation and improved water use efficiency must be emphasized in the management of the State's water resources, and must be considered as a potential new source of water. Accordingly, as part of the terms of this water right, the applicant shall prepare and implement a water conservation plan approved by Department of Health. The standards for such a plan may be obtained from either the Department of Health or the Department of Ecology.

